

trailer solutions

BENDIX® TRAILER PRODUCTS

PROVIDING SUPERIOR SOLUTIONS FOR INCREASED SAFETY AND LOWER COST PER MILE

The brake system you choose can make the difference between a trailer that makes money and one that sits idle in a service bay. At Bendix Commercial Vehicle Systems LLC and Bendix Spicer Foundation Brake LLC, we see what you see. A world filled with competitive challenges for those who build, purchase, manage and service the trailers which keep North America's goods moving safely and efficiently.

That's why the complete portfolio of Bendix® brand trailer products and services is designed for performance, reliability and maximum value. Each Bendix part is rigorously tested, backed by a powerful warranty and engineered to help keep your brake system in spec.

Bendix goes far beyond simply offering the critical braking components for your trailer application. Instead, Bendix delivers a complete, integrated system that helps to keep trailers where they need to be and takes your business where you want it to go.

A Commitment to Safety

Building on more than 75 years of growth and innovation, our passion remains the same – a commitment to improving driver safety with the absolute highest level of technology, service and product reliability.

We're proud of our reputation as experts in air brake system components, integrated brake system design, foundation brakes, and leading-edge safety technologies in North America. And as a key member of the Knorr-Bremse Group, we're the preferred worldwide supplier of commercial vehicle braking systems.

Bendix. Making Trailers Safer.



Bendix®

BENDIX® TRAILER PRODUCTS

ABS

Bendix® TABS-6 Trailer ABS

Superior braking performance. Compact and modular. Easily configured to meet your needs.

Bendix® TABS-6 is a small, scalable, lightweight system that eliminates the installation and maintenance hassles found with most other trailer ABS units.



Our TABS-6 unit delivers outstanding performance with fewer components to install and connections to make, which means greater reliability on your vehicle, including integral 5-pin and sensor connections. And Bendix® TABS-6 includes the patented "Select Smart™" control technology as well as Auxiliary Design Language (ADL), which enables special functions that would normally require their own ECU.

Bendix® Trailer ABS Diagnostics

Fast and easy troubleshooting in a pocket-size package.

The Bendix® Trailer Remote Diagnostic Unit (TRDU) is the industry's smallest and most cost-effective full function ABS diagnostic tool. It offers quick, accurate diagnostics for your trailer ABS system and provides immediate system status, displaying ABS fault information using colored LED lights. No waiting for blink codes. No thumbing through manuals. Just fast and easy troubleshooting.



The Bendix TRDU is designed to be installed on the mobile lamp tester already in your shop at the end of a 7-way coiled electrical connector. That means that every time the trailer lamps are tested, you receive a full trailer ABS diagnostics run as well.

The TRDU communicates through the blue wire of the trailer electrical connector, at the nose or rear of the trailer, to the Trailer ABS Unit. The TRDU may also communicate over the tractor and trailer power wires through the tractor's diagnostic connector.

The flexible Bendix® Trailer RDU (TRDU) supports the complete range of Bendix® trailer ABS components, including Bendix® TABS-6, A-18, Gen 5, and MC-30 Electronic Control Units (ECUs).

Bendix® TABS-6 Advanced

The first-ever single-channel trailer roll stability system.



Bendix® TABS-6 Advanced is a simple but innovative solution that builds on the single-channel, 2S/1M (two-sensor/one-modulator) configuration – the most popular

ABS system for today's trailer manufacturers and owners. The single-channel configuration delivers strong roll stability performance while simplifying installation and maintenance at a lower weight.

Simple to afford – With the patented Bendix TABS-6 Advanced, you get the market's first single-channel trailer roll stability system at a cost that's more affordable than other trailer stability products in the industry.

Simple to install – Bendix TABS-6 Advanced is the only trailer stability system that mounts directly to the air tank. The unit can also be easily installed on a cross member or frame rail. And TABS-6 Advanced can be easily retrofitted to provide roll stability protection to your entire fleet.

Simple to maintain – The clean, compact package of Bendix TABS-6 Advanced requires no additional maintenance above that needed for a trailer ABS system. Key components are replacement only, which means you won't spend time and money on repairs. Diagnosing trouble codes is simple using Bendix® ACom™ diagnostic software.

Valves

Bendix® Trailer Spring Brake Valves

Reliable, durable performance you can count on.

Bendix offers two options to meet the complete range of trailer spring brake valve needs. Both products are the result of precision engineering and design that provide superior performance in the presence of air line contaminants commonly found in trailer systems. Both are built to withstand temperatures as low as -50 degrees F. And both have an anti-compounding feature to provide increased robustness and improved failure detection by audibly exhausting air through the tractor protection valve at the back of the cab.

The Bendix® SR-5® spring brake valve is our premium option. This industry leader delivers fast, reliable performance under extreme conditions. Push the trailer park brake release button, and the trailer is ready to move when the driver shifts into gear. The speed of release prevents dragging tires and additional strain on your tractor's drive train. The SR-5 relay based design makes it the fastest performing trailer valve available anywhere.



The Bendix® SRC-7000™ spring brake valve offers an economical option for our SR-5™ valve model, while still providing superior durability and performance against the competition. What makes this valve different is its unique body; constructed from engineering grade plastic composite material tested for extended service life under the harshest conditions.



It also features oversized internal ports and seals specifically designed to perform through more contaminants than any other valve on the market. The patented SRC-7000 valve is an easy fit when servicing competitive valves.

Bendix® Trailer Suspension Dump Valve

High capacity air flow. Durable Bendix performance.

For multi-axle trailers equipped with air suspensions, Bendix now offers the patent pending SDS-9600™ Trailer Suspension Dump Valve. Working with our Bendix® TABS-6 Trailer ABS, the SDS-9600™ valve supplies a full federal-regulation-approved axle dump system that dumps air out of the rear axle suspension of spread axle trailers, helping to prevent damage to tires and suspension components during slow speed turns. The SDS-9600™ valve is designed to dump the axle bags effectively, while consuming no additional air during normal driving. This powerful new addition to the Bendix valve line replaces the need for three separate valves mounted on the trailer, which means simplified installation and plumbing. The Bendix® SDS-9600™ valve is capable of delivering high capacity air flow on both dump and fill, enabling quick suspension air exhaust and recharging. When dumping air from the system the valve holds a minimal pressure, protecting the suspension components from potential damage.



Bendix® Pilot Relay Valves

Built by the most trusted name in the industry.

The patented Bendix® pilot relay valves boost and accelerate the control signal of dollies, towing trailers, and other combination vehicles. Our durable, reliable design features 0 psi differential accuracy, better stability for smoother stops, and a single-unit feel for combination vehicles.



New in 2008

Bendix® SRC-7000™ Spring Brake Valve & SDS-9600™ Trailer Suspension Dump Valve

BENDIX® TRAILER PRODUCTS

Foundation Brakes

Foundation Drum Brakes

A superior solution for every application.

Bendix Spicer Foundation Brake LLC provides over 32 models of foundation brakes to meet the need of every trailer application in North America. These include drum brake products in diameters from 12.25 to 20 inches and widths from 4 to 10 inches. Bendix is the only brake manufacturer to offer both Single and Double Anchor Pin foundation drum brakes to the original equipment market. The premium Single Anchor Pin product is currently standard on truck and tractor applications and optional on trailers. This product also accounts for the highest "pull through" volumes of any foundation drum product in North America. The Bendix Dual Anchor Pin is available on trailers and specialty applications.



Replacement Parts

**Application engineered solutions,
OE quality availability.**

No matter your application, when it comes to replacement parts, we've got you covered. Bendix offers



a wide selection of linings, including Extended and Standard platforms, Fiberglass to metallic fibers, and GAWRs of 13,200 to 29,000 lbs. We are the complete, one-stop source for over 50,000 OE-quality, all-makes foundation brake components in one of the most trusted brands – Bendix. We offer a full range of air and hydraulic replacement brake parts, friction materials, air brake chambers, and automatic slack adjusters.

Bendix Air Disc Brakes

Compact design minimizes weight and maintenance.

Bendix air disc brakes feature a patented mono-block caliper design, which makes the brake more compact than two-piece caliper designs. The mono-block design also offers better sealing from the environment for better protection from the elements. Engineered to fit the most popular North American wheel-end envelopes, Bendix air disc brakes offer commercial vehicle drivers top performance, durability, and long life.



Dual, internally adjusted pistons allow the Bendix® ADB22X™ air disc brake to offer the most precise brake adjustment, better force distribution, and more even pad wear than any single piston caliper design. In addition, the Bendix® ADB22X™ brake is the lightest dual piston design available. This lighter weight directly equates to increased pay loads, better fuel economy and reduced fleet operating cost.

The Bendix two guide pin design provides fewer seals and boots, fewer wear components and more stringent overall dimensional accuracy. This feature eliminates binding while providing more consistent brake force and longer overall brake life.

Air disc brakes are proven to significantly reduce stopping distances on commercial vehicles as well as virtually eliminating brake fade. An optimized pad and rotor material combination ensures maximum life and results in virtually no degradation in stopping power when brake temperatures rise under heavy use.

Our unique pin style pad retainer allows for fast and easy pad replacement even after millions of miles of on-highway service. Changing Bendix® air disc brake pads takes less than half the time it typically takes to change drum brake linings, reducing downtime and labor costs.

Bendix® brand foundation brake products are brought to you by:

**Bendix Spicer
Foundation Brake LLC**

A Bendix CVS and Dana Joint Venture

Wheel End Components

Bendix® ASA-5® Automatic Slack Adjusters

Easier-to-install technology that doesn't compromise on performance.

Bendix automatic slack adjusters offer a unique infinite adjusting clearance-sensing design that delivers consistent, precise performance for enhanced balance braking.

With no need for a control arm and associated mounting hardware, the Bendix® ASA-5® slack design allows fleets to stock fewer part numbers for the greatest number of applications. Performance is maximized with a clearance-sensing design that adjusts on brake application, making it less prone to over adjustment and less sensitive to varying temperatures and duty cycles than stroke-sensing designs. The ASA-5 slack's unhandled design further reduces inventories and lowers service risks.

The ASA-5 slack adjuster is designed for use on Cam-actuated drum brakes. Designed and built Bendix tough, the patented bronze bushings and specialized lubricant help to reduce friction and increases service life, while the BUNA-n sealing boot supplies optimum protection against outside contaminants in the harshest environments.



Bendix® SB-4™ Spring Brake Actuators

**Ride with confidence.
Stop with confidence.**

Bendix® SB-4 spring brake actuators feature the patented Sure Crimp seal to impede tampering. The guided spring-pressure plate significantly reduces diaphragm and seal wear, while reducing coil clash, to extend overall service life.



Bendix delivers with a wide range of available service chambers, piggybacks and combination brake chambers to fit your needs. There's a Bendix spring brake for your trailer application – standard or long stroke – with a range of yoke (clevis) sizes. And when a complete replacement isn't necessary, there are replacement kits and individual components available as well.

Bendix spring brakes give you the best of both worlds, providing a high quality product available in a configuration that meets your exacting requirements. For a complete listing of the latest Bendix parts, talk to your authorized local Bendix dealer or distributor today.

Roadranger®

The Roadranger® System features Bendix® brand foundation brakes.

Bendix® brand foundation brake products are brought to you by:

Bendix Spicer Foundation Brake LLC
A Bendix CVS and Dana Joint Venture

BENDIX® TRAILER PRODUCTS

Air Treatment

Bendix® System-Guard® Trailer Air Dryer

**The optimum choice
for filtering out
moisture and contaminants that can lead to
freeze-ups and premature system malfunction.**

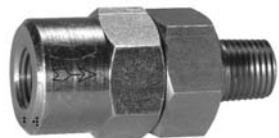
The Bendix® System-Guard® trailer air dryer is the first air dryer designed specifically for trailer brake systems that continuously protects against moisture and solid contaminants, minimizing the possibility of pneumatic seize-ups.

The System-Guard® trailer air dryer cleans the air in both the trailer's supply and control air lines simultaneously, helping to protect trailer valves and your trailer ABS. It helps to prevent contaminants and moisture from entering air suspension bags and valves that can keep the air suspension from working correctly, reducing downtime and decreasing overall maintenance costs. It also incorporates fail-safe bypass valves in the unlikely event the dryer becomes obstructed.



Bendix® AF-3™ In-Line Air Filter

**A fine-grade filter designed
to eliminate the smallest
foreign material before it enters
your trailer air line.**



The Bendix® AF-3™ in-line air filter is the simplest protection against solid contaminants. About the diameter of a quarter, the AF-3™ in-line filter assembly is a powerful tool designed to filter out foreign material from a trailer air line before it can enter the control port of the trailer ABS modulator or spring brake relay valve. When in place, the AF-3™ in-line air filter is capable of removing the smallest particles down to 0.012 inches in size... helping your trailer air lines and ABS operate to maximum capacity.

Easily installed, easy to maintain, and available now at any authorized Bendix distributor or dealer, the Bendix® AF-3™ in-line filter can increase the robustness of your braking system against solid contaminants by a factor of 20.

Bendix® Cyclone DuraDrain™ Water Separator

**An automatic solution, standing guard over open
glad-hands on trailers and converter dollies.**

The Bendix® Cyclone DuraDrain™ trailer water separator is the only trailer air brake system protection device available today, that automatically purges liquid contaminants while simultaneously removing solid particulate.



At over 90 percent efficient in capturing and removing water during normal braking applications, the Bendix® Cyclone DuraDrain™ unit can be used on both supply and control lines.

The patent pending Cyclone DuraDrain™ is a highly effective separator designed to help increase the service life of valves, antilock braking systems and your overall brake system by preventing contaminants from ever reaching them. Small but mighty, it can also greatly reduce internal valve corrosion, system freeze-ups and dragging brakes.

	Contaminants		
	Moisture	Liquids	Solids
System-Guard®	✓	✓	✓
Cyclone DuraDrain™		✓	✓
AF-3™			✓

**Whatever the level of protection
required, Bendix has the solution.**



Bendix Manufacturing

Where some of the world's finest ideas take shape.

Our state-of-the-art manufacturing facilities in Bowling Green, Ky., Huntington, Ind., and Acuña, Mexico, are our Centers of Excellence. It's here where unmatched investment in people and technology results in the industry's best original equipment and remanufactured air brake system components.

Today's competitive environment leaves no room for error. That's why Six Sigma quality has become integral to our culture. It helps us focus on developing and delivering high-performing, high reliability products and services.

Customer Support

**Because a sale isn't the end of a relationship,
it's just the beginning.**

At Bendix, our commitment to the customer doesn't end with the sale. Rather, it continues throughout the life cycle of our trailer products and through a number of diverse channels.

For instance, our warranty programs are among the best in the industry, providing real peace of mind that Bendix customers can depend upon.

Access to our Web sites, www.bendix.com and www.foundationbrakes.com, our toll-free Tech Team number, and our 100% ASE-certified field troubleshooting Service, Warranty and Training (SWAT) team makes communication an easy, affordable two-way street. In addition, we have a robust menu of diagnostic and troubleshooting assistance available on CD or DVD, providing information where and when you need it. Talk to your Bendix account manager for all the details.

Training

We work hard to instill confidence through extensive training initiatives, and teach the skills necessary to maximize the performance and life cycles of all of our products. Every year, the SWAT team canvasses North America, holding on-site customer training sessions that feature a thorough review of the air brake system. Specialized, on-site fleet training is also available.

Tailored to both new and experienced technicians, the Bendix Brake Training School offers a curriculum that includes: the fundamentals of compressed air; tactics for air system failure mode diagnosis and troubleshooting; and air brake system and foundation brake components, including air compressors, valves, foundation drum brake and air disc brakes, slack adjusters, brake chambers, shoes and drums.

Additional topics covered include antilock braking systems (ABS) and stability technologies such as the Bendix® ESP® Electronic Stability Program. Various class exercises with hands-on activities are provided, and participants receive a comprehensive workbook enabling them to take their lessons home with them.

Bendix began offering training schools more than 50 years ago, making it among the longest running programs in the industry. Visit www.bendix.com or www.foundationbrakes.com for training times and locations. Registration may be completed online, by phone (1-800-AIR-BRAKE, option 5), or via fax (216-651-3261).





Superior Trailer Solutions To Maximize Performance And Keep You On The Road.
Take advantage of superior trailer braking systems and solutions that work best for your application. Discover how Bendix trailer products and services can enhance your vehicle's air brake system. Talk to your Account Manager, call 1-800-AIR-BRAKE or visit www.bendix.com or www.foundationbrakes.com today.



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